```
iperf -s -u &
s:
        iperf -c <ip> -i 1 -p <porta-destino> -u -b 100M &
c:
        iperf -s -p 5002 -Z reno
s:
        sh getCWND 5002 relatorioReno1.txt
t:
        iperf -c <ip> -t 60 -i 1 -p <porta-destino> -Z reno -b 100M >clienteReno.txt
c:
t:
        finaliza o sh
t:
        sh getCWND 5002 relatorioReno5.txt
        iperf -c <ip> -t 60 -i 1 -p <porta-destino> -Z reno -P 5 -b 100M>clienteReno5.txt
c:
        sh getCWND 5002 relatorioReno10.txt
t:
        iperf -c <ip> -t 60 -i 1 -p <porta-destino> -Z reno -P 10 -b
c:
 100M>clienteReno10.txt
t:
        finaliza o sh
        finaliza o servidor RENO
5:
s:
        iperf -s -p 5003 -Z cubic
        sh getCWND 5003 relatorioCubic1.txt
t:
        iperf -c <ip> -t 60 -i 1 -p <porta-destino> -Z cubic -b 100M >clienteCubic.txt
c:
t:
        finaliza o sh
t:
        sh getCWND 5003 relatorioCubic5.txt
        iperf -c <ip> -t 60 -i 1 -p <porta-destino> -Z cubic -P 5 -b 100M
c:
 >clienteCubic5.txt
t:
        finaliza o sh
t:
        sh getCWND 5003 relatorioCubic10.txt
        iperf -c <ip> -t 60 -i 1 -p <porta-destino> -Z cubic -P 10 -b 100M
c:
 >clienteCubic10.txt
t:
       finaliza o sh
's: finaliza servidor UDP e TCP
```

Latência 0:

```
sudo tc qdisc add dev <interface> root netem delay 200ms
s:
s:
       iperf -s -u &
c:
       iperf -c <ip> -i 1 -p <porta-destino> -u -b 100M &
       iperf -s -p 5002 -Z reno
s:
t:
        sh getCWND 5002 relatorioReno1lat200.txt
       iperf -c <ip> -t 60 -i 1 -p <porta-destino> -Z reno -b 100M
c:
>clienteRenolat200.txt
t:
       finaliza o sh
t:
       sh getCWND 5002 relatorioReno5lat200.txt
c:
        iperf -c <ip> -t 60 -i 1 -p <porta-destino> -Z reno -P 5 -b
100M>clienteReno5lat200.txt
        sh getCWND 5002 relatorioReno10lat200.txt
t:
       iperf -c <ip> -t 60 -i 1 -p <porta-destino> -Z reno -P 10 -b
c:
100M>clienteReno10lat200.txt
t:
      finaliza o sh
s: finaliza o servidor RENO
s: iperf -s -p 5003 -Z cubic
t:
       sh getCWND 5003 relatorioCubic1lat200.txt
       iperf -c <ip> -t 60 -i 1 -p <porta-destino> -Z cubic -b 100M
c:
>clienteCubiclat200.txt
       finaliza o sh
t:
t:
       sh getCWND 5003 relatorioCubic5lat200.txt
       iperf -c <ip> -t 60 -i 1 -p <porta-destino> -Z cubic -P 5 -b 100M
>clienteCubic5lat200.txt
t:
       finaliza o sh
t:
        sh getCWND 5003 relatorioCubic10lat200.txt
        iperf -c <ip> -t 60 -i 1 -p <porta-destino> -Z cubic -P 10 -b 100M
>clienteCubic10lat200.txt
      finaliza o sh
t:
s:
       finaliza servidor UDP e TCP
```

Latência 200ms:

Abrir ~]		clienteCubic.txt ~/UDESC/REC/TrabalhoFinal/TF	Salvar	=)	 Abrir	~	(F)		relatorioCubic1.txt ~/UDESC/REC/TrabalhoFinal/TF	Salvar ≡	9 (
	Comandos	×	clienteCubic.txt				Comandos	×	clienteCubic.txt ×	relatorioCubi	ic1.txt
674					1	1	cwnd:72				
	cting to 192.168.0.18 ize: 170 KByte (defa				2	1	cwnd:75				
					3	1	cwnd:77				
[3] local 192.168.0.159 port 53404 connected with 192.168.0.186 port 5003					4	1	cwnd:77				
[ID] Interv		Bandwidth	100.0.100 por c 5	005	5	1	cwnd:77				
	1.0 sec 11.8 MBytes				6	1	cwnd:87				
	2.0 sec 11.1 MBytes				7	1	cwnd:87				
3] 2.0-	3.0 sec 11.2 MBytes	94.4 Mbits/sec			8	1	cwnd:87				
[3] 3.0-	4.0 sec 11.1 MBytes	93.3 Mbits/sec			9	1	cwnd:87				
	5.0 sec 11.2 MBytes				LO	1	cwnd:87				
	6.0 sec 11.1 MBytes				11		cwnd:87				
	7.0 sec 11.2 MBytes				12	1	cwnd:122				
	8.0 sec 11.1 MBytes				13		cwnd:122				
	9.0 sec 11.2 MBytes				14		cwnd:37				
	0.0 sec 11.1 MBytes				15		cwnd:40				
	1.0 sec 11.5 MBytes 2.0 sec 11.1 MBytes				16		cwnd:21				
	3.0 sec 11.1 MBytes				17		cwnd:34				
	4.0 sec 10.6 MBytes				18		cwnd:26				
	5.0 sec 10.0 MBytes				19		cwnd:36				
	6.0 sec 5.25 MBytes				20		cwnd:45				
	7.0 sec 3.75 MBytes				21		cwnd:7				
	8.0 sec 10.0 MBytes				22		cwnd:36				
3] 18.0-1	9.0 sec 4.88 MBytes	40.9 Mbits/sec			23		cwnd:12				
3] 19.0-2	0.0 sec 7.12 MBytes	59.8 Mbits/sec			24		cwnd:6				
	1.0 sec 5.88 MBytes				25		cwnd:33				
	2.0 sec 5.62 MBytes				26		cwnd:1				
	3.0 sec 3.38 MBytes										
	4.0 sec 7.12 MBytes				27		cwnd:1				
	5.0 sec 9.00 MBytes				28		cwnd:61				
	6.0 sec 6.62 MBytes 7.0 sec 6.75 MBytes				29		cwnd:32				
	8.0 sec 9.00 MBytes				30		cwnd:26				
3] 21.0-2	8.0 Sec 9.00 MBytes	73.3 HUCCS/SEC			31		cwnd:33				
					32		cwnd:50				
					33		cwnd:70				
					34	1	cwnd:73				















